Prof. V. Edwards

PowerPoint presentation

**NYS Learning Standard 4:   Science**

Students will understand and apply scientific concepts, principles, and theories pertaining to the physical setting and living environment and recognize the historical development of ideas in science.

LESSON: THE LIFE CYCLE OF A BUTTERFLY

Grade Level: K-1

Subject: Science/ Language Arts

**Aim:** The purpose of this lesson is to familiarize the students with the life cycle stage of a butterfly through incorporation of different types of learning modalities.

**MATERIALS:**

The Very Hungry Caterpillar by Eric Carle

Butterfly Cycle poem by Suzy Galzay

Paper plates (one per student)

Colored pencils (handful per table)

Glue

Scissors

Lifecycle of a butterfly booklet

Bright Butterflies Worksheet

Sequencing HW sheet

Smartboard-powerpoint presentation

**OBJECTIVES:** Students will be able to:

* Listen attentively to the book, The Very Hungry Caterpillar by Eric Carle.
* Identify the four different stages of a butterfly life cycle (from egg, caterpillar, pupa or cocoon, to a full-grown adult butterfly).
* Watch the PowerPoint presentation “The life Cycle of a Butterfly” and play the quiz
* Design their own butterfly life cycle plates.
* Make a book “life cycle of a butterfly”

**CONTENT OF LESSON:** Students will be made aware of things such as:

1) The first stage of the life cycle is the egg.

2) The second stage of the life cycle is the caterpillar stage

3) When the caterpillar hatches, it eats leaves and sheds its skin as it grows.

 4) The third stage of the life cycle is the cocoon or the chrysalis.

 5) The chrysalis, at first is a light green color with gold spots and then becomes clear in color.

 6) At the clear stage of the cocoon, we can begin to observe the wings of the butterfly.

 7) The last stage of the life cycle is the adult butterfly.

 8) Before the butterfly can fly its wings must be dry and strong.

9) Adult butterflies eat nectar

**ANTICIPATORY SET:**

I will invite the children to the carpet and ask: "Has anyone ever seen butterflies flying around in the spring or summer"? I will reactivate prior knowledge and ask students to describe a butterfly and share their knowledge of butterflies. I will describe to the students that a cycle of life is also the different stages of life. I will ask, "Can you describe the stages of your life? We will discuss the fact that the stages of our lives are very similar to the life cycle of a butterfly. I will compare the egg, caterpillar, chrysalis, and adult butterfly stage to our baby, toddler, teenager and adult stages of our lives.

**PROCEDURES:** I will:

1. Invite the students to the carpet.

2. Introduce the reading selection The Very Hungry Caterpillar by Eric Carle.

3. With the class, review some of the prior facts discussed about the life and stages of a butterfly.

5. Pose a few high orders of thinking questions for the students, such as:

Where did you come from?

Can you describe the stages of your life?

How are the stages of your life similar to the stages of a butterfly?

6. Watch PowerPoint presentation: Explain that a butterfly develops through four main stages: egg, caterpillar, cocoon and adult butterfly, while the human develops through main stages: baby, child, teenager and adult. I will encourage participation. Students will get turns answering questions and coming up to the smart board

7. Explain independent activity and provide model.

9. Distribute a paper plate to each of the students.

10. Invite the students to take a colored pencil and make four equal parts.

11. Model this concept for the students, while walking around and monitoring the students' progress.

\* Modified for Integrated students\*

12. Direct the students' in the labeling process. The students will need to write the four different stages of the life of a butterfly.

\* Modified for Integrated students\*

15. Instruct a cleanup.

\*All procedures are adjusted and adapted to meet individual needs of integrated students. \*

**CLOSURE:**

Upon completion of the hands-on activity, the students will be re-directed back to the carpet. Teacher will ask various students to share their interpretations of the butterfly life cycle plate. The student will explain the different stages. The teacher will introduce the “Butterfly Cycle” poem by Suzy Gazlay. The poem will act as a form of reinforcement for the students. The teacher will read (sing) the poem aloud and ask students to try the second time together.

**INDEPENDENT PRACTICE:**

Students will be asked to complete a “Butterfly life cycle” booklet and color in pictures in groups and have open discussion of what they have learned.

**HOMEWORK:** Students will complete a mapping/sequencing sheet

**EVALUATION:**

Short Term: The students will be able to create a butterfly life cycle plate identifying each stage of the cycle and create a “butterfly life cycle” booklet to take home. Various students will share their own interpretation of the life cycle of a butterfly.

Long Term: The students will be asked to talk about the various stages of the life cycle of the butterfly, while comparing them to the life cycle stages of a human.